No.



8500160

<u>to all to whom these presents shall come:</u>

Asgrow Seed Go.

Collicreas. There has been presented to the

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE; IN THE APPLICANT(6) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-LUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ety therefrom, to the extent provided by the Plant Variety Protection Act T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'A3803'

In Lestimony Editereof, I have hereunto set my hand and caused the seal of the Blaut Tariety Protection Office to be affixed at the City of Washington, D. C. 30th day of the year of our Lord one thousand nine hundred and eighty-six.

Variety Protection Office

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  (Instructions on reverse)  1. NAME OF APPLICANT(S)  ASTOW Seed Company						APPROV	AL EXPIRES 4	-30-85
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  (Instructions on reverse)  1. NAME OF APPLICANTS)  Asgrow Seed Company  Asgrow Se	. AGRICULTURAL MARKETING SERVICE			Appli	FORM APPROVED: OMB NO. 0581-0055 Application is required in order to determine			
A ADDRESS (Siter and No. or R.F.D. No., City, State, and Zip Code) 9620-109-25 7000 Portage Road Kaldmazoo, MI 49001 6616) 385-6605  Regularized Proposition Clycine Max  Clycine Max  Clycine Max  Leguminosea  7. FAMILY NAME (Botanical) Leguminosea  8500160  DATE 5/29/85	APPLICATION FOR PLANT VAR		CTION C	RTIFICATE	be iss held	ued (7 U.S.C. 2 confidential unt	421). Informa	atlon is
4. ADDRESS (Street and Ma. or R.F.D. No., City, State, and Zip Code) 9620-190-25 7000 POT Lage Road Kalamazoo, MI 49001  6. Genus And Species Name Glycine Max  1. Eguminosea  1. Leguminosea  1. Enthor Name Soybean  2. Date of Determination September 1980  3. Laguminosea  1. If Incorporation  3. Laguminosea  1. If Incorporation 1. If Incorporation, seacetion, sea.)  3. Name and Adobat For Filing 1. Amount For Filing 1. John A. Batchia (9620-190-25) Asgrow Seed Company Kalamazoo, MI 49001  3. Batchia (9620-190-25) Asgrow Seed Company Kalamazoo, MI 49001  4. Cieck Affendants of Participant Representative(s), If Any, To Serve in this Application and Receive All Papers  3. Bathibit A, Origin and Breeding History of the Variety (See Section 32 of the Plant Variety Protection Act.)  3. Exhibit D, Additional Description of Variety  4. Exhibit D, Additional Description of Variety  5. Does the Affelicants Section 32 of the Basis of Applicant's Ownership.  5. Does the Affelicants Section 32 of the Basis of Applicant's Ownership.  6. Does the Affelicants Section 32 of the Basis of Applicant's Ownership.  6. Does the Affelicant Section 32 of the Basis of Applicant's Ownership.  7. Exhibit D, Additional Description of Variety  1. Exhibit D, Additional Description of Variety  2. Exhibit D, Additional Description of Variety  3. Did the Affelicant's Section 32 of the Basis of Applicant's Ownership.  6. Does the Affelicant's Section 32 of the Basis of Applicant's Ownership.  6. Does the Affelicant's Section 32 of the Basis of Applicant's Ownership.  7. The applicant's declare(s) that a viable sample of basis seeds of this variety will be furnished with the application and will be repletished upon request in accordance with such regulations as may be applicable.  7. The Applicant(s) is care the owner(s) of this sexually reproduced nove I plant variety, and believe(s) that the variety is distinct, uniform	1. NAME OF APPLICANT(S)		2. TEMPO	BARY DESIGNATION	3. V	ARIETY NAME		
902-190-25 7000 POTTAGE ROAD KALAMAZOO, MI 49001 SOUS AND SPECIES NAME CLYCTIRE MAX LEQUINIONSES I. KIND NAME SOYDER O. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, spacelation, etc.)  O. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, spacelation, etc.)  O. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, spacelation, etc.)  O. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, spacelation, etc.)  O. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, spacelation, etc.)  I. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware  J. AME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS  John A. Batchis (9620-190-25)  Asgrow Seed Company Kalamazoo, MI 49001  PHONE Include area code): (616) 385-6605  A. S. Eshibit B, Novely Statement.  J. Eshibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.)  J. Eshibit C, Solvento Bits of Applicant's Ownership.  DOES THE APPLICANTIS DEPOTY THAT SECOP THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SECO! (Res Section 33/a) of the Plant Variety Protection of the Basis of Applicant's Ownership.  DOES THE APPLICANTIS DEPOTY THAT SECOP THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SECO! (Res Section 33/a) of the Plant Variety Protection of the Basis of Applicant's Ownership.  DOES THE APPLICANTIS DEPOTY THAT SECOP THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SECO! (Res Section 33/a) of the Plant Variety Protection Act.)  DID THE APPLICANTIS PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES?  Vas. (If "Yes," "give date, "Yes," "give and "Yes,"	Asgrow Seed Company			XP3803		A3803		
SOUTED  Clycine Max  Leguminoses  1. Kind name Soybean September 1980 September 1	4. ADDRESS (Street and No. or R.F.D. No., City, Sta 9620–190–25	ate, and Zip Code)	}	•	PVPC		L USE ONLY	
EXIND NAME  Soybean  Soybean  September 1980			(616)	385-6605		850	0160	
Soybean  Soybean  September 1980  September 19	6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanica	()	1	li .	·	
Soybean  September 1980  Septe	Glycine Max	Legumi	nosea		FILING	TIME		 P.M.
Soybean  September 1980  Septe	. KIND NAME	9.	DATE OF E	ETERMINATION	+-			
COPPORATION  1. IF INCORPORATED, GIVE STATE OF INCORPORATION  Delaware  3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS  John A. Batcha (9620-190-25)  Asgrow Seed Company  Kalamazoo, MI 49001  PHONE (Include area code): (616) 385-6605  4. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED  Distributed and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)  Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)  Exhibit B, Novely: Statement.  Exhibit C, Objective Description of Variety,  Exhibit C, Statement of the Basic of Applicant's Ownership.  5. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 52 of the Plant Variety Protection Office.)  6. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 52 of the Plant Variety Protection Act.)  SEED? (See Section 52 of the Plant Variety Protection Act.)  ONE THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 52 of the Plant Variety Protection Act.)  No.  DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE  DID THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE  TO THE OWNER OF GENERATIONS?  The "Yes," Give name of countries and dates!  No.  The specific rives, "give name of countries and dates!  No.  The specific rives, "give name of countries and dates!  No.  The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replicabled.  The undersigned applicant(s) is care) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Applicant(	Soybean				CEIVED	DATE	 35	
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SEEO? (See Section 83(a) of the Plant Variety Protection Act.)  Yes (If "Yes," answer items 16 and 17 below)  No.  DID THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  No.  DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?  Yes (If "Yes," give date.  No.  No.  HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?  Yes (If "Yes," give name of countries and dates)  No.  The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.  The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.  GNATURE OF APPLICANT  No.  No.  To item 16, which with with He will will be Head of Certified  Certified  Certified  Certified  Certified  Certified  No.  No.  Yes (If "Yes," give date.  No.  No.  No.  Yes (If "Yes," give date.  X no.  Yes (If "Yes," give date.  X no.  No.  No.  No.  No.  The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.  The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.	a. Exhibit A, Origin and Breeding History o b. Exhibit B, Novelty Statement. c. Exhibit C, Objective Description of Varie d, Exhibit D, Additional Description of Var e. Exhibit E, Statement of the Basis of App.	f the Variety (See ty (Request form iety. licant's Ownership	Section 52 from Plant	Variety Protection Off	ice.)		OE CERTIEIS	
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GNATURE OF APPLICANT  John a Battle  april 26, 1985	distinct, uniform, and stable as required in S	ner(s) of this sex ection 41, and is	ually repro entitled to	fuced novel plant va protection under th	riety, a ne prov	and believe(s) isions of Secti	that the variet on 42 of the I	ry is Plant
John a Battle april 26,1985	Applicant(s) is (are) informed that false repre	esentation herei	n can jeopa	dize protection and	result	in penalties.		
	GNATURE OF APPLICANT				٥	ATE		_
GNATURE OF APPLICANT DATE		. ,					6,1783	
	GNATURE OF APPLICANT				٦	ATE		1

FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)

#### EXHIBIT A

Origin and Breeding History of the Variety

1978

Original cross made at Oxford, Indiana

Parents: L74L228 \* A3127 Cross number: B78456

1978-79 (fall-winter)

10 Fl plants grown at Florida winter nursery under lighted

conditions

1979 (winter-spring)

F2 bulk populations grown at winter nursery. Population

sampled by pod-picking from each plant.

1979 (summer)

F3 bulk population grown at Oxford, Indiana and generation

advanced by pod-picking

1980 (spring-winter)

F4 bulk population grown at Florida winter nursery. Single

plant selections threshed in Florida.

1980 (summer)

F5 plant rows grown at Oxford. Plot number B80-61367 was

selected for yield testing.

1981

B80-61367 was tested in Preliminary Yield Test 81P327 as code 3.

1982 to 1984

Line was grown in advanced yield tests. Tested as X3803 in 1983, XP3803 in 1984, and renamed A3803 in fall of 1984. A replicated progeny maintenance test was grown in 1984 to produce pure breeder seed.

Trial evaluations since 1981 indicate A3803 is uniform and stable within commercially acceptable limits. As with other soybean varieties, variants or offtypes can occur for almost any characteristic during the course of repeated sexual reproduction.

Asgrow Seed Company PVP Application - Soybean A3803 April 26, 1985

8500160

#### EXHIBIT B

### Novelty Statement

To our knowledge, the soybean variety that most resembles A3803 is A3659. Both varieties are indeterminate types having shortened internodes. A3803 differs from A3659 by being two days later maturity and possessing the Rps<sub>1</sub><sup>a</sup> gene for resistance to Phytophthora root rot. A3803 also has larger seed than A3659.

Refer to EXHIBIT D for documentation of maturity differences, Phytophthora reactions, and seed sizes.

.EXHIBIT C (Soybean)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

# OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

Sign	TELAN (GIYCINE MAX L.)		
NAME OF APPLICANT(S)	TEMPORARY DESIGNATI	ON VARIETY NAME	
	XP3803	A3803	
Asgrow Seed Company  ADDRESS (Street and No., or R.F.D. No., City, State, and	Zip Code)		AL USE ONLY
	p	PVPO NUMBER	
7000 Portage Road Kalamazoo, MI 49001		8500	160
Choose the appropriate response which characterizes in your answer is fewer than the number of boxes pr	the variety in the features descri ovided, place a zero in the first b	bed below. When the num ox when number is 9 or less	ber of significant digits s (e.g., 0 9).
1. SEED SHAPE:			
	W T		•
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flatt	ened (L/W ratio > 1.2; L/T ratened (L/T ratio > 1.2; T/W >	io = <b>〈</b> 1.2} 1.2)
2. SEED COAT COLOR: (Mature Seed)			
1 1 = Yellow 2 = Green 3 = Brov	vn 4 = Black 5 = C	other (Specify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shin	y ('Nebsoy'; 'Gasoy 17')		
4. SEED SIZE: (Mature Seed)			
1 8 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)		• .	
6 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfe	ct Black 6 = Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		···	
1 1 = Yellow 2 = Green	•		
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
2 1 = Low 2 = High			
8. SEED PROTEIN ELECTROPHORETIC BAND:			
1 = Type A (SP1 <sup>a</sup> ) 2 = Type B	(SP1 <sup>b</sup> )		V.
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 2 = 0 3 = Light Purple below cotyledons ('Beeson'; 'Pic 4 = Dark Purple extending to unifoliate leaves ('H	Green with bronze band below cotyleo kett 71') Hodgson'; 'Coker Hampton 266A')	dons ('Woodworth'; 'Tracy')	
10. LEAFLET SHAPE:		<del> </del>	
3 1 = Lanceolate 2 = Oval 3	= Ovate 4 = Other (Specify	//	,,

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11. LEAF	LET SIZE:
3	1 = Small ('Amsoy 71'; 'A5312')
12, LEAF	COLOR:
3	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')
13. FLOW	ER COLOR:
1	1 = White 2 = Purple 3 = White with purple throat
14. POD C	OLOR:
1	1 = Tan 2 = Brown 3 = Black
15. PLANT	F PUBESCENCE COLOR:
2	1 = Gray 2 = Brown (Tawny)
16. PLAN	TYPES:
2	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')
17. PLANT	THABIT:
3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')
18. MATU	RITY GROUP:
0 6	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X
19. DISEA	SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)
BACT	ERIAL DISEASES:
	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)
2	Bacterial Blight (Pseudomonas glycinea)
0	Wildfire (Pseudomonas tabaci)
FUNGA	AL DISEASES:
2	Brown Spot (Septoria glycines)
	Frogeye Leaf Spot (Cercospora sojina)
0	Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5 Other (Specify)
0	Target Spot (Carynespora cassiicala)
0	Downy Mildew (Peronospora trifoliorum var. manshurica)
1	Powdery Mildew (Microsphaera diffusa)
0	Brown Stem Rot (Cephalosporium gregatum)
	Stem Canker (Diaporthe phaseolorum var. caulivora)

FORM LMGS-470-57 (2-82)

19. DISEA	SE REACTION	: (Enter 0 = Not Tested; 1 = Susceptible; 2	= Resistant) (Continued)		
FUN	GAL DISEASE	S: (Continued)			
_1	Pod and Sten	n Blight ( <i>Diaporthe phaseolorum</i> var; <i>sojae)</i>			
2	Purple Seed S	Stain (Cercospora kikuchii)			·
0	Rhizoctonia	Root Rot (Rhizoctonia solani)			
	Phytophthora	a Rot (Phytophthora megasperma var. sojae)			
2	Race 1	2 Race 2 1 Race 3	Race 4 Race 5	Race 6	Race 7
	Race 8	Race 9 Other (Specify)			
VIRA	AL DISEASES:				
0	Bud Blight (T	obacco Ringspot Virus)			
		c (Bean Yellow Mosaic Virus)			
		ic (Cowpea Chlorotic Virus)			
	Pod Mottle (E	Bean Pod Mottle Virus)		· · · · · · · · · · · · · · · · · · ·	
0	Seed Mottle (	Soybean Mosaic Virus)		• •	
NEM.	ATODE DISEA	SES:		· San	
	Soybean Cyst	Nematode (Heterodera glycines)	· 		
1	Race 1	1 Race 2 1 Race 3 1	Race 4 1 Other (	Specify)	,
0	Lance Nemate	ode (Hoplolaimus Colombus)			
0	Southern Roo	et Knot Nematode (Meloidogyne incognita)			•
	Northern Roo	t Knot Nematode (Meloidogyne Hapla)	,		**************************************
		Knot Nematode (Meloidogyne arenaria)			
0		•	•		
0		natode (Rotylenchulus reniformis)			
0	OTHER DISE	ASE NOT ON FORM (Specify):	<u> </u>		
20, PHYSIO	LOGICAL RE	SPONSES: (Enter 0 = Not Tested; 1 = Susce	ptible; 2 = Resistant)		
1		on Calcareous Soil			
		v)			
L			·		
21. INSECT		(Enter 0 = Not Tested; 1 = Susceptible; 2 = f	Resistant)		
	Mexican Bean	Beetle (Epilachna varivestis)	and the second s		
		opper (Empoasca fabae)			
	Other (Specify	/ <u></u>			
22. INDICA	TE WHICH VA	RIETY MOST CLOSELY RESEMBLES TH	AT SUBMITTED.		
CHAR	ACTER	NAME OF VARIETY	CHARACTER	NAME OF VA	RIETY
Plant Sha	pe	A3659	Seed Coat Luster	A3659	
Leaf Shap	oe	Williams	Seed Size	Williams	
Leaf Colo	or	A3659	Seed Shape		
Leaf Size	,	Williams	Seedling Pigmentation	Williams	
					6

# 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS	PLANT LODGING		LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/	
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD	
A3803 Submitted	126	1.5	79	11	. 15	41.1	20.7	17.9	66	
A3659 Name of Similar Variety	124	1.5	84	10	7.5	41.7	20.4	14.4	62	

## PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

EXHIBIT D
Additional Description of the Variety

# Maturity (days from September 1)

YEAR	LOCATION	<u>A3803</u>	<u>A3659</u>	WILLIAMS 82	LSD (0.5)
1984	Oxford, IN	28.0	26.0	23.5	2.7
	Carrollton, IL	32.5	32.0	32.8	2.8
	Stonington, IL(NR)	25.0	20.8	23.8	2.1
	Stonington, IL(WR)	21.0	18.5	16.5	2.0
	Queenstown, MD	27.5	26.0	25.0	1.2
1983	Oxford, IN	28.7	25.0	26.0	1.8
	Shelby, NE	36.0	33.7	32.0	2.0
	southern IL	23.7	21.5	20.2	1.9
	Stonington, IL	21.0	19.0	19.5	1.5
	Queenstown, MD	23.7	23.0	23.7	1.2
1982	Oxford, IN	25.7	24.7	24.7	1.9
	Queenstown, MD	23.7	23.0	19.3	2.4
	AVERAGE (12 locations)	26.4	24.4	23.9	

### PHYTOPHTHORA VERIFICATION

Refer to attached copy from Ohio State University Tests. Race results indicate the presence of  $\operatorname{Rps}_1^{\,a}$ 

SEED SIZE

A3803 has a larger seed size than A3659 as evidenced by the following data:

YEAR	ASGROW TEST	LOCATION		per # A3803
1983	V304	Oxford, IN	2873	2389
		Merna, IL	3109	2522
		Evansville, IN	3242	2522
		AVERAGE	3075	2478
1984	V304	Oxford, IN	3197	2665
		Merna, IL	3346	2681
		Converse, IN	2923	2305
		AVERAGE	3155	2550

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# APPENDIX D, continued

### 1984 OHIO SOYBEAN PERFORMANCE TRIALS

# Special Phytophthora Evaluation Test For Breeding Lines and Experimentals

	FIELD	- <u>-</u>	Race Re	action	
ENTRY	TOLERANCE RATING	1	3	4	7
Asgrow XP3670	3.4	R	.S	S	s
Asgrow A4271	3.0	S	S	S	S
Asgrow XP3227 = A3427	2.5	R	R	S	R
Asgrow XP3803 = A3803	3.0	R	S	S	S
Asgrow XP3529	2.8	S	S	S	·S

C:PVP.385

### EXHIBIT E

# Statement of the Basis of Applicant's Ownership

A3803 was originated and developed by Brian J. Moraghan, Asgrow Plant Breeder. By agreement between employee and Asgrow Seed Company, all rights to any invention, discovery, or development made by an employee are assigned to the Company. No rights to such invention, discovery, or development are retained by the employee.

mga b:A3803.ExE